# FIG. 1A

cagaaagaga ccta	tatgat caaatacaga ac	atg atc ttc c Met Ile Phe L	
	ttg cag ctt cac cag Leu Gln Leu His Gln 15	Ile Ala Ala L	
	gaa ctg tac ata ata Glu Leu Tyr Ile Ile 30		
	ttt gac act gga agt Phe Asp Thr Gly Ser 45		
	caa aag gtg gaa aat Gln Lys Val Glu Asn 60		
	ctg gag gag cag ctg Leu Glu Glu Gln Leu 80		
	gtc caa gtg agg gac Val Gln Val Arg Asp 95	Glu Gly Gln T	
	gtc gcc tgg gac tac Val Ala Trp Asp Tyr 110		
	agg aaa ata aac act Arg Lys Ile Asn Thr 125		
	gag etc ace tge cag Glu Leu Thr Cys Gln 140		
	cca aac gtc agc gtt Pro Asn Val Ser Val 160		
	ggc ctc tac cag gtc Gly Leu Tyr Gln Val 175	Thr Ser Val L	
	aga aac ttc agc tgt Arg Asn Phe Ser Cys 190		

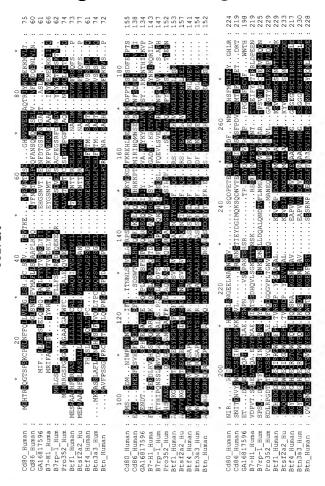
#### FIG. 1B

			Thr													6//
			cca Pro													725
			att Ile 235													773
			ctg Leu													821
			agg Arg							tga	acct	gtg	gtc	ttgg	gageca	874
ggg	tgac	ctg a	atato	gacat	c ta	aaaga	agct	tc1	gga	etct	gaad	caaga	aat	teggt	ggcct	934
gca	gaget	ttg	ccatt	tgca	ac tt	ttca	aaatq	g ect	ttg	gatg	acco	cagca	act	ttaat	ctgaa	994
acc	tgca	aca a	agact	age	ca a	cacct	ggc	ato	gaaa	cttg	ccc	ette	act	gatct	ggact	1054
cac	ctct	gga (	gccta	atggo	et ti	aago	caago	c act	act	gcac	ttta	acaga	aat	tacco	ccactg	1114
gat	cctg	gac	ccaca	agaat	tt c	ette	aggat	cct	tct	tgct	gcca	agact	tga	aagca	aaaagg	1174

aattatttcc cctcaagttt tctaagtgat ttcca

1209

# FIG 2A



# TOWNST. COMMINGS

# FIG. 2B

288 306 273 290 302 307 276 318 263 313	460 : 323 : 323 : 316 : 316 : 392 : 405 : 368	4 4 8 2 2 4 4 5 8 4 5 8 4 5 8 4 5 8
360 SAI SAI T T PPEKHSDS : POLOBELR : KLOBELR : KLOBELR : KLUBELK :	* 66 SGKHYWEVENVM SGRHYWEVENVGORK SGRHYMEVENGORK	* dalam
* PARTE PART	3 33	540 HIVICPRSA
*** A 340  *** CONTRIBUTE *** A 350  *** CON	440 PCVLGMES	FYNARDRSI FYNATDGS
CRERRYMGCTNINBER VMGCTNINBER OLCGRIZSS ORGIGERSY OSG. EEENAG OSG. EEENAG INGRESE IN	400 * 440  LOPDITA HPERFESSION REPROPERSION PROPERTIES OF WILLOWS SENSOR HILLOWS SENSOR SENSOR HILLOWS SENSOR SENS	* 500 * 540  SNOW FILE SPERIT PLEKELCRVGVFIDYFRAND FRANKAR FRENT PRASHETY PRASHETY FRANKAR FRANKER FRANKAR FRA
MERCENS  ATTINE  TO MERCEN  VC MERCEN  TO ME	420 RRGPYRQR <mark>UP</mark> QRAEEPRDIJ RLEDSRQK <b>UP</b>	* KESLCRVGVF PEPPRKVGIF AGPPRRVGIE
320 FYCE FICEINEMEN FICEINEMEN FICEINEMEN FICEINEMEN FILENIA FILEN	* SEDRRSVR SEDORSVO YEDSKSVR	500 SPERITPIK EPRTWIKIP
GEVICOE FULCALLICALLICALLICALLICALLICALLICALLICAL	400 PDTAHPELFI PDTANAILLE	* GNOYRALISGGNKYRALISGGNCYRALISG
300 WATTERN WTRAVI OMERNHEN EEN ALM PERENT ALM WEVALAUTI WIEALAUTI WIEALAUTI WIEALAUTI		GEWRLEWE. GYWRWCETD GEWRWELL
A COPPUTE SOLUTION OF THE PER PARA TABLE PROPERTY OF THE PER P	*  SE  HEWKMALEKPA  HOWENEKPA	480 BVLLIFON WVKUTEEN
ANOBENNITINGSE INSTRUCTOR OF THE PROPERTY OF	* 380 * * VERSENTSSCDKSDTCF KEDDGGEIA MAR QVARGEKSLAVHERKVALEKPA MAR QVARGEKSLAVHERKVALEKPA	480 STWOVERHSED RKKENTETERROWNEDER: SHENCERNED RKKENDEREBROOMPEREE
Cd80 Human : Cd86 Human : Cd86 Human : Cd86 Human : B71H Huma : B712p-1 Hum : B121 Human : B121 Hu	Cd80 Human : Cd86 Human : Cd86 Human : Cd86 Human : Cd16817596 : Cd1681759 : Cd16	Cd80 Human : Cd86 Human : Cd86 Human : Cd86 Human : Cd81596 : Cd816817596 : Cd816817596 : Cd816817592 : Cd816

# YOUNDY' ONBLUKAN

# FIG. 2C

	1	1	1	-1	1	1	1	523	1	584	526
	••									••	
	:		:	:	:	:		: :	:	ARTEALY	
*										Btn3a3_Hum : V <mark>ER</mark> ITLEPTALTEPTALTEPTALTEREVESSPDPDLVPDHSLETPLTFGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHKLQARTEALY : 584	
620										PAHPGAEVSP	PTQPSQGAP
*										POAEVISLL	DADTLHSKLI
009								SI		PGLANESGE	PMGEESAPR
*								BtsfZa2_Hu : FTR.GSDDSPFFTGRALTGASGVMVPEEGLKLHRVGTHQSL		/PDHSLETPLT	Btn_Human : FacIwssGKKPITICFIADGPERVIVIANAQDLSKEIPLSPMGEESAPRDADTLHSKLIPTQPSQGAP
580								GASGVMVPEE		EVESSPOPDLY	GPERVTVIAN
*								SPIFICEALT		TANTECEIPK	KPLTHOFIAD
260								FER. GSDD	1	VERITLEP	FECHWSSGK
	••		••		••	••	••	••			••
	cd80 Human :	Cd86 Human :	GA16817596	B7-H1_Huma	B7rp-1 Hum :	Pro352 Hum :	Btfl Human :	tsfZa2_Hu	Btf4 Human :	tn3a3 Hum	tn_Human

#### FIG. 3A

ataagaagct	gaattaaggt	gatggcagtg	gggtggaaga	aaggagagee	accatgcaaa	60
aagtatccag	gagggagaat	taacaggact	aggggatggg	ccatatttgc	aagatgagaa	120
atgcagaggt	ctaagattct	agctnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	180
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	תחתחתחתחת	nnnnnnnnn	240
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חחחחחחחחחח	nngcataaac	300
catattttcc	ccagaggagg	attagtagga	aaggaagctg	ctggttggaa	agtatcttta	360
tagcagtgtc	tgttcctcgg	tttgctcaag	gggacagtgt	gccaggaaag	teccegtgga	420
agggcaagga	agaaggggaa	gttaaagcca	gtggcaggtg	atccaagaat	cttttctgtt	480
gctagagcta	tgttacatgc	tgtcctttca	tgctctaaaa	ataagagtgc	tggcaagtgc	540
caggcctgtt	ggtgcagctt	aagatgatac	ctttcttgga	tatatatgca	tctgaataag	600
gaaggctatc	ttctggtcaa	gctaaggtat	gccatgagca	tttccctgtg	gaaagcactt	660
aattctgttc	ccagttgtta	cctgctgtaa	gateteeett	tctaaaataa	aaacaagaat	720
acageteaet	gaggacctta	catttccctc	tagctactga	ctcatttctc	ttctcctttt	780
tatagcactc	ttcttgagag	agttgcctat	atttgttgcc	acatctttac	ccattctctt	840
ttgaacctat	tcaagctttc	atctgtacaa	aactcactga	tactgtgctt	gtcaggatca	900
tccatgacct	ccatactgct	aaatgcaact	ctcaagagta	tttggctcta	ctgatcactc	960
ctttgtagca	ctgtgtttta	aaatataggt	tttattatta	tttaggtatg	gtgaggccaa	1020
tatatcagga	aatgactgtc	gttgaaaaaa	gtatgttgta	ctcacagatc	ccaagagaag	1080
gggggcacac	catgccacaa	agggccacat	ggggaagcac	cagggtcagc	caggaggtgg	1140
gtggggggtg	cgcaagatct	ttattgtggt	ttcaacagga	agaaatgggt	gaagcagggt	1200
gagtggattt	aggattagct	gatataaata	atttcagcag	gctctggggc	ataggggctg	1260
tccctagtct	tctggtactt	ggccctgggg	tgattaaggc	agttgcatag	tgttgggaat	1320
gtgaaagccc	ccaataaatg	aggcagttgt	gggtatgggc	tctgaaatgg	gttggtttgc	1380
atttgaaagg	tgtgctcatg	ggcaagtggt	ttactctctc	ttagaggtta	gaattggcta	1440
accctgggag	cggcagtccc	ttcagggtca	gcaaggeeee	aggtgtcaaa	gcatcagaat	1500
acagaaaata	aaatgcatgg	ataatacaca	ctgccatttg	cctttgtacc	cttcctttca	1560
atcttctctg	ctggtgaccg	ctcttcacaa	agatctataa	atgttggaat	accccatgtc	1620

#### FIG. 3B

tcagtccttg	ggcactctct	ttcctatctc	tctgtaggtg	atgtaatgca	gatatccatg	1680
actttaaatc	tttaacactt	ctgcattgat	gactcctaaa	tttacatctc	taccccaact	1740
gcctactaaa	cacctccact	tggctatcta	ataggcattt	caaaccaaat	ctacaacaaa	1800
cgtaactctt	tttccccttc	cttaatttgc	ttctccccca	gccttctcca	ttttaataaa	1860
cagcatctcc	attgccttag	tgactcaagc	cccaaactta	ggaattttcc	cagatttccc	1920
tctttttctc	aaactatata	tctagcctgt	cagcagttcc	cttcaggtct	ttttcnnnn	1980
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חחחחחחחחחח	חתתחתחתחתח	nnnnnnnnn	2040
กก <b>ก</b> กกกกกกกก	nnnnnnnnn	กกกกกกกกกกกก	חתתתתתתתת	nnnnnnnnn	nnnnnnnnn	2100
nnnnnnnnn	nnnnnnnnn	ппппппппппп	חחחחחחחחחח	חתתתתתתתת	nnnnnnnnn	2160
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2220
חחחחחחחחחח	חחחחחחחחחח	nnnnnnnnn	חחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	2280
תתתתתתתתת	nnnnnnnnn	חחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2340
nnnnnnnnnn	плппппппппп	חחחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2400
תתתתתתתתת	חתתתתתתתת	חחחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnna	2460
ctaannnnnn	חתתתתתתתת	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2520
nnnnnnnnn	חחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	ทกกกกกกกกกก	nnnnnngete	2580
catttatatt	tannnnnnnn	nnnnnnnnn	กกกกกกกก <b>ก</b> กก	חחחחחחחחחח	nnnnnnnnn	2640
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2700
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2760
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn	2820
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2880
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2940
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn	nnnnnnnnn	3000
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3060
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3120
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3180
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3240

#### FIG. 3C

nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3300
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3360
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	ttgtgtttta	3420
aatatatata	cacacttaga	cacatataac	cctctttcgt	atatcaatta	tactttaata	3480
aagctgttgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnctcgcca	3540
acagaccact	teteacccct	actagcccct	ctactctaag	ctatcagcat	ttctgcaaac	3600
acattcctaa	ccgatctcac	tgcttgtaat	cttgccagca	acctctccct	ctcagcaata	3660
gtctattgcc	tacaccaaag	cttagttgtc	tcttaatgat	gtaaatgagg	ttctatcatt	3720
ctcctgaccc	aaaccctcca	ctgcttttca	tcacactcag	agcagctctg	ctgttgcctg	3780
atttagatgt	atggetecaa	cagatttccc	ctgaagaaat	gattccatgg	ctgataaaag	3840
ttggaaagcc	tecteagttt	cagaccatta	tcagattagc	tgtgtgctct	gtccctttcc	3900
tcaaccataa	gaagtccatg	gataaagaaa	gcttcagagt	aaaggagaaa	gcatgggagg	3960
tacagcagga	ccaaggtggg	gcattcgcag	ccccaccct	catcagagee	agttccctac	4020
tctccctgtc	taaacctctt	agtaagaggt	agttcaagag	aggggcaaac	tcaattccag	4080
cactcaaaag	cacttgacta	ctttgctcag	tcaactagca	agtatttatt	gagaatgtag	4140
ctctgttcta	tggagtctta	ttttcaagtg	tcagactccc	agacatccag	tccaggtaaa	4200
gaagatggtg	tccattattc	atttgacaaa	caaagttggg	gttcaagggc	cagctattga	4260
aaaaagctat	ggaaagcttc	atgagacgtg	caggtaactg	ccaatatgtg	tggttcacaa	4320
ggactggttc	atattcagaa	acggccatta	gaaaaggaag	aagaacttct	catttggatt	4380
tataaagagt	gtcttgttta	ctcttaattt	atatcttctc	ttctccagga	aatcaaccta	4440
taacttctcc	tcccagctcc	actctaccat	ggtctgtcac	cttccccaaa	tgatttgtta	4500
ttcccctgtt	ttcaaaagtg	aacaaagaac	caaagaccca	gcaaagtttc	acaaggccct	4560
gagactttca	attgtctatt	tcagatcaaa			ctc ctg cta Leu Leu Leu	4616 6
	c ctg gaa t r Leu Glu L				aaag	4662 18
gacaaaggga	gaggcttaag	aaagaagagc	aggtggtggt	tectagecaa	agccaaaaat	4722
gagaatgtgg	ccctcaggct	gagggctttc	tttgagagga	cgtatgattt	ctgggctatt	4782

#### FIG. 3D

ccaagcacca caaaaaaaaa aagagteeee atggtggett atacatgeea atgteeetat 4842 ctgacagaaa cggtgactga gaatattgct ccatctattc ccactatcca gtgagggtaa 4902 tgacaagaag acaggatcac tcagaccatg taaatctaaa ctgatacaag agggcagggg 4962 ttgagtteee ttaaaggtga gatgeeaage agetgteeee tteetttetg geagggagag 5022 taaggagaca atggccaggg aacaccgtta ctctaaagat aatgtcttga agacattctg 5082 catattatta gttgtttctg tgagtttctt ttttgaaaag caacaatagc agccgttggt 5142 cattcatacc ttaatgtggt ttactgagtc ttcctaaaac ccaaatgaac aatgaacctt 5202 aaggetatee etttggaett gaagaaagga ettetattgg aggatgaggg tgageagaaa 5262 gaaaagcagt ttcacagttg gttgttctcc tggggaaggt agttcagacc attcgagqqt 5322 gtagttagaa ccatgagtgc actattttgg atgaacacca ggagctaaga gagtaacata 5382 gaggtgtgga cagaggatta agtcctcaag acaatagccc cagccccatg ggaaatcatc 5442 tttctgctca tgattgagaa ataatggctc ccttggcact tgataacctt tcgaagagct 5502 ttotectocc tactagotgg ttocagatca ctcttcaccc agtcacattc ctctcactca 5562 cttgagetge ceagectggt ctggcactag agacatgcac ttggggccct cctcaaagga 5622 agaccetgag atattetget taettetaet etgeteetge etgeagggee agetaaagga 5682 actiticatg tittettige aaggaaccet geetggetgg cattitagag acaagcaaaa 5742 ggggcaataa cttccttgct acaaaacagc ttcaagtttc catagagtga taagggaaat 5802 gagggccaaa agacactgtt ccccatcctg tggcaggact gggggcttca ggagaaaact 5862 tggggaatgt gtaacctctg tgggtttgta gcttaaaaac actgagatcc tgggttttct 5922 gtetttgttt tttgeetttt etettaggaa aggagtgage tagggtgaca aggggeaaca 5982 ttttttatcc ctcattggct ctttctacag aggaaggatc ttttcttcta agataatcag 6042 cacaagacaa tgaagatagg cactagetee cagttaggta tactaatggg gcaaaaggaa 6102 nnnnnnnn nnnnnnnn nnnnnnnn nnattttgca ggtgagggaa ctagaactca 6222 gaaaaggtac ttaatttccc caagattaca tagttattag gtgacaccgg caagatttca 6282 acaaagctaa tgtcctttct actttactgt gctaccatga tgatggtaat caaaaatggc 6342 agacaaccca taaatcttcc aactttggaa taggtttttg cactgaagtc tgaatatgga 6402

# FIG. 3E

tacc	gtattga	atgtttattc	tggatattca	cagaatcaaa	aaatatgtgt	aatgaattat	6462
gttg	ctgaat	taactgaaag	gaaagtaaaa	atgtagcgct	ttctcatttt	cttcacgaat	6522
ttgg	gaattct	tttctgcttt	ccactatgca	gataacatca	gttcagacaa	atattaaata	6582
ccta	cctaaa	ttagaatgcc	ttctcctcat	gggattttt	taaaatcttg	tcatttcatg	6642
tete	tttaat	taaagagttt	tgatttcaga	ggagggtacc	tgcaaaagaa	aacaacaaaa	6702
aaac	taaagg	atctgagaaa	taattagtgt	ttacttctgg	ggaggggagg	aggtctggga	6762
tggg	ggtaaa	aaggatagtc	ttatctatta	tgtatattca	ggtttttgtt	ttttacaaga	6822
agca	atgtatt	aggnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnca	agaaatttct	6882
cata	taaaaa	tatgaaagta	atcagactgc	aacactcagt	gcctgagaca	gagctacagc	6942
tato	agggtg	tccagacaga	cagaagatta	cattttcttc	cttgctcctt	gtacageece	7002
agac	ctgcat	gcttcattga	aaagaaaaga	agatacctga	attaaatcaa	tgtgatgctt	7062
agta	ccctat	cagtgcacat	ttcttttcnn	nnnnnnnnn	nnnnnnnnn	cacttnnnnn	7122
nnnr	nnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7182
nnnr	nnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7242
nnnr	nnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7302
nnnr	nnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7362
nnnr	nnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnca	7422
ctta	atggcgg	tattctcagt	cattacaaat	aaataaaaac	aatccatatg	ccctggagaa	7482
tttç	gattcca	ggagtaggtc	tagaagaact	tcaactggag	aatggataga	gaaatcatgg	7542
tata	atttgca	gnnnnnnnnn	nnnnnnnnn	nnngatagca	tgtgaataaa	ttaattacaa	7602
aaac	catatga	ctacatctat	tattatatag	catgtagata	aattacaaaa	acatgtaact	7662
acat	ctatga	atcttagagc	ataatattga	gnnnnnnnnn	nnnnnnnnn	nnnnnnggcc	7722
agaa	agataac	acatagcaca	atgtcctttt	cataaataaa	tatattgctt	aagcatacct	7782
tata	atataga	agataaagct	taaaaagtaa	agaagag			7819

# FIG. 4

attatcactt	atgagggtgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	60
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	120
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnctgcc	180
ctttatttt	tcatgaaaga	aattgctgaa	gaggactaaa	agaagtttta	gtaagcattc	240
aataaatgta	tgttctttat	agtttccaaa	tcagcaaata	tagacatcct	gcatttttaa	300
ggagatttat	atattttatt	ggacatgctg	taatttattt	aaccacttcc	ctgttggtag	360
acattatttc	cattttcttc	tgctagatta	atgcttgaaa	aaaatgtgtg	cctcctaaag	420
actgtgatga	aagttgcctc	tgaataaaac	tcaaacaaat	cattaatcat	taactctttc	480
cttacttgta	tgctctttgg	atgetetaet	gtgttatcta	taaaataaag	tttgaagtga	540
aaaattaggg	taaaacattt	tatatcattt	ttaaaggata	tatacatgga	tgtacttaca	600
tatgcatgtt	taaatttata	taccataaca	tttatttctt	tttttaaaaa		650

#### FIG. 5A

catatttytt	ttttttttt	Cattletati	tcaaaatcta	aggacatett	ataacccaga	00
aatattttt	ataccttgtc	atgtcttaga	ggaaagagcc	accccagtct	tttttcattg	120
atgttttct	tetetetteg	tactccagag	gtagatgaaa	accagagggc	cacaatgacc	180
atggtgatgc	ctgaggtcat	tctggggcac	agacctcagc	ctaggttact	ccacttcgcc	240
tatctttaga	tccaaaacta	ccctgctgac	tgctgagata	aacaaaggag	aataatcagg	300
ttggggaaag	gatttctatg	cgaagacatg	tctccatgca	gtcctcctac	actgagcaga	360
gcatgagtca	ggtgcttaga	gcaggatttt	gtcctaaacc	aggaacttca	gagttttctg	420
aagaatgtgg	ctatgtaaag	caccccccca	cccaccctt	acttctcaag	tacattacgt	480
ggcaagtctg	aaaaaactta	cacttctgtt	gttaaatgtg	ggggataaaa	tataaactta	540
gtttcaagag	gaagctatct	tgggaggtaa	tgcaaataat	tegttgtgtg	tttcctgaat	600
aagtgacagg	tgctgactac	cattgatgct	tcattgcaat	aaaatgcaaa	gctcccccaa	660
gaatttttga	aatgcatcaa	gctaggtgtt	ctaatctagc	aaaaggacct	gcatacatga	720
atttttcatg	cttttgccaa	gtcttttgcc	ctttagttta	gttaagggcc	ccacatgaat	780
ggaaagcctg	tgttgtcagc	ttaattttgt	agttgtggaa	accttccagt	tttctccttt	840
gtctaatacc	ttcaggagtt	caatcctagg	ttgaagctta	atttaataac	catgtggcat	900
gtaaagtaga	aaacaaaaca	tcttttcctt	agcatacage	aaaaaaaaa	aaaaaactca	960
ctcatggatg	tagtgtacac	atgccagtgg	atatatagtc	ataactgcag	tcattggtag	1020
cacagaaata	aatgtgcatt	gaagacacag	agannnnnnn	nnnnnnnnn	nnnnnnnnn	1080
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1140
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnngg	1200
gctagcccag	tgtctgactt	actgtgttta	agaaatatca	actattacgc	tacttcccag	1260
tgacagtcca	aatgcagacc	agtgttataa	ctctacnnnn	nnnnnnnnn	nnnnnnnnn	1320
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1380
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	aggcaaggtg	1440
gtaaaagacg	cttgcacgtg	caaatgttac	tttgtgtaac	tnnnnnnnn	nnnnnnnnn	1500
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1560
nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn				1620

#### FIG. 5B

tgggcttgag aaaaaacctc ttcatagaat tgtttgcatc agtgtcttga ttgcctctgt 1740 aacttacaat aagcaagaat gtttcaggat ttcaaaaatc tattgcattg cctaaacctc 1800 ttattttqta tqqaqtaatc aaqctcaaaq tttqcatqtc ttaqaaactt tacttqqqqc 1860 aaaattagac caagtaacaa ttaatcttct aggtattctq agctattcag acatatgatt 1920 catgtttgct aattgctctt ttctcttgta aatattagct gaaaaatgtc acctgtctga 1980 caagtagcat attttatgcc tatcactcct ggcacgcatt cttacaaggc agacaggaaa 2040 aataggaaga aaatggactt ttatcaaagg cccaggcagt aaagagggga gttctgctgt 2100 aagctaaggg gagttccaga ggaagttata ggcgttccct ttcttatgac aagaaagcat 2160 agtgcagtaa ataaatttgc taaatagatt caacagtctc tacccaaagt catctattta 2220 attettgttg ttatgcagac tcagcaacta acctteettg taageeceat tttetteeet 2280 gtttcctgtt tatcaaatgt aattaaacaa gagaagtatt atagaagagt aaaagtagta 2340 ggtaattett gaacttggca tatgattact acatatttga tgaatagttg aatattatte 2400 ttcaaggaca gattggattt ggtatcaggt ggctctqcat taagttataa gggacttaat 2460 aactcaagta tttaaggacg gcttccatca taaagggatc tgcccttaag agggtccat 2520 tatggagatt ctgaggtgag agctattcca agtgtgcagt ggattaaaat aaaagaatca 2580 tacaggaaat ctctttttac atgccttatt ccagggtctt tgcaacctgg cacagcaagt 2640 gcagatatga ttagcattgt tttacacatg tacactcacc ttatagccct gcccctqtqc 2700 coctoctgca caaaagaatq ctgggcacac qtgaactcct ctctgtagaa aggcacatta 2760 atgttctagc catggttaaa acagggatag aggcaagcca aaaatgtcgg tcatttgaaa 2820 taaatctcaa gtttgtgcat atcactatca agtgtgctgt gtggcaatta agaatgccaa 2880 tttgtgtgat cacaggcaag ttgcagtttg atgaaaggaa agcagaggtg aatatataac 2940 cagggtcatc ctttcttct ccctctctct ctttctgtca tttatttgcc aagctcttaa 3000 ctagaacttg ctatgtgcta ggtactggat atatcaaagc aaactcagcc tqqtctttqc 3060 cttcaaagat ttgcaggata gtgggaagaa aaacttqaat cagaggacat ctgcagtggg 3120 aatcattcaa gcagcagaaa acccaaaagt tacttatact gtgaaatctg atcagagaat 3180 ggactgtcct ggttagtaaa atatcctgga ggataaagat tggccatgca ttccacatat 3240

## FIG. 5C

	gaattaccac	tttcccaaga	attaaaacat	ggtacgaaag	aaaggnnnnn	nnnnnnnnn	3300
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	пппппппппп	nnnnnnnnn	3360
	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	กกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกก	3420
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3480
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnna	aacaacttct	3540
	ggaatagcta	atgcttagaa	gcagctccca	aatatttgtn	nnnnnnnn	nnnnnnnnn	3600
	nnnnnnnn	nnnnnnnnn	gcaagctcta	ctgaacataa	tttgatctaa	tcttctgtga	3660
	ttattcagaa	actacttcaa	gattttccta	tacctccatc	ataatgaata	cccattcatt	3720
	aatgatggaa	gcagcctaat	tttgtcattt	ttcacacttt	attgatgtaa	cactaccttt	3780
	actagtttgg	ccactcctta	tgctttttt	atagaactat	ttagatcaat	tcaactttta	3840
	aaaaataaag	ccacataccc	ctgtggtaga	tgaaaaacaa	gtatcatttg	cactggtaaa	3900
	tagagaatag	gaagaaaaat	aaatgcagtg	aaaataaagc	agtgttatca	aatcctaccc	3960
	agatactgtt	atctacccgg	aagetteetg	tttgattaaa	aggaaaaata	gccagtgtta	4020
	gaggtgtgga	agtctagttg	aaattatatg	caattgaagg	attaaaatag	aattgaaaag	4080
	ggaataaatt	cctctctgaa	taatttaact	ccctttaggc	tttgattctg	cctcatctaa	4140
	aatcatctta	catacttcta	gtggcgtgtc	cctcacattt	tggtaaactc	tgnnnnnnn	4200
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4260
1	nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	4320
)	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	4380
)	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnccat	ttttcctttc	cctttattgt	4440
•	cagaaaatag	aaagcatcta	cagtgggctt	gtatgatgtg	gtggttagaa	atacctgatc	4500
1	tgattnnnnn	תתתתתתתתת	תחתתחתחת	nnnnnnnn	חחחחחחחחחחחחחח	nnnnnnnnn	4560
1	nnnnnnnnn	תתתתתתתתת	nnnnnnnn	nnnnnnnn	חחחחחחחחחח	nnnnnnnnn	4620
Ι	nnnnnnnnn	nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4680
I	nnaccatcac	tggtgagagg	aagtgatacc	tggcacaaaa	atatatggat	taatcaatat	4740
<	ggattgaggg	aaacaaacct	ggagaatagg	atgtgaaggt	atttaagtaa	catgagetea	4800
ç	gaccttgatg	gtagggaagt	cqaaaqqaaq	cattttgttc	ttatatgaca	gatgacetgg	1860

## FIG. 5D

aatgactgca	gggcttgggg	ggtcagggad	: tggaggtggg	agaggcctct	gagagcaagc	4920
agtgctgtcc	accagaagct	cttgctgggg	g tgcccagaga	ggagcaaagg	gcagtcagct	4980
gcacaggagg	gaatgtttgg	aggagagag	: cacctcagat	cagcgggtca	agaateecae	5040
tcttgcccag	atggatgggg	caaaggagaa	aaaggattcg	ccacgggaat	gtccagataa	5100
gacaggtgcc	ttttggaaaa	tgggggtgag	atgggtctca	ggttacactt	cgtaagaact	5160
ggaatgtaaa	gtaaaggcag	acaatgacaa	aatatcttgt	tttctttca	gct tta Ala Leu	5216 20
ttc aca gt Phe Thr Va	g aca gtc c l Thr Val P	ct aag gaa ro Lys Glu	ctg tac ata Leu Tyr Ile	ata gag cat Ile Glu His	ggc agc Gly Ser	5264 36
aat gtg ac Asn Val Th	c ctg gaa t r Leu Glu C	gc aac ttt ys Asn Phe	gac act gga Asp Thr Gly	agt cat gto Ser His Val	g aac ctt . Asn Leu	5312 52
gga gca at: Gly Ala Il:	a aca gcc a e Thr Ala S	gt ttg caa er Leu Gln	aag gtg gaa Lys Val Glu	aat gat aca Asn Asp Thi	tcc cca Ser Pro	5360 68
cac cgt gaa His Arg Gl	a aga gcc a ı Arg Ala T	ct ttg ctg hr Leu Leu	gag gag cag Glu Glu Gln	ctg ccc cta Leu Pro Leu	ggg aag Gly Lys	5408 84
gcc tcg tto Ala Ser Pho	c cac ata c His Ile P	ct caa gtc ro Gln Val	caa gtg agg Gln Val Arg	gac gaa gga Asp Glu Gly	cag tac Gln Tyr	5456 100
caa tgc ata Gln Cys Ile	a atc atc t e Ile Ile T	at ggg gtc yr Gly Val	gcc tgg gac Ala Trp Asp	tac aag tac Tyr Lys Tyr	ctg act Leu Thr	5504 116
ctg aaa gto Leu Lys Val	c aaa ggtga L Lys	gtggt gtcaa	ggact agaato	catg gaagct	ctct	5556 120
ccaacagagg	atctgcaagt	cacagaaacc	cattaaaggt	agctcaagca	aaaacaagca	5616
ggctgctttt	aaggagacag	ctatttcaga	gaaaatgaaa	gcatctgctc	ggaaataatt	5676
tttgacatct	gagtacaaag	cagccgaagt	acaagtgaaa	gggggtagga	cctataggaa	5736
taaaatggga	ctggaggaag	ccaggaaaat	tagtccctga	aatgtgggag	ggtatgaaaa	5796
ataagctttg	cctaattcac	aattctccca	tggaacatcc	ctgacttgat	tattaagata	5856
ctcttttca	atagtttata	ccctgaatcc	agagttttta	aaaccatggt	ttgccgccca	5916
ttcatggatt	aaaatatcaa	tttagtgagt	agcaaccaga	tgcacgtttc	ccgcccttta	5976
aaaaataatg	tatagaagag	aatagacaga	gtagatcaga	cgatatcaca	gagtaggact	6036
gagtactgta	aaactaattt	ctgagggacg	tgtgtgtgtg	tgtgcgtgtt	gggtcatggt	6096
ataaattttt	tttttcttac	tttggatcat	aaaaagttac	aagtttggaa	aacactoctc	6156

#### FIG. 5E

nnnnnnnaga gtcccatgaa gtctatagct gtccctattc ctctggattc agggatctct 6276 ccactccagc acaattgaaa atctaaatat aaagagaatc ttcacactct tgtttgttct 6336 agaaaaggtg atttgaggaa agacatataa caactataaa aaatagattt tgcttgttca 6396 ttggcttatg gtctccaggc ttgaatgctc tgagataaat gatgccaata tttctctggc 6456 ctcttcccat cccacgcatt ggacctcaga tggtctgtac tgtcttctag agggtttgtg 6516 ggttttggcc ccaaaaaacc attaaccttg gcagaaagtg tgtgacttta tgatctggta 6576 caaagaagga caaactagag ggactggaca tgaggatgaa tattgtgttc gcccttatnn 6636 плипипипи плипипипи плипипипи плипипипи плипипипи плипипипи 6756 tgttacaggg gcagtgacct cctcacacct caaccatcaa tgagtcacca ggaaagccat 6876 tagcctagat gtaactgttt totatottta ttgcatttcc tacatccagg cagcagctgg 6936 gaggaactet agaacactga agtttgtetg agtteeetta atgtaagget gtacattete 6996 aggatgeett gatgtaeteg aatatetgea accetaaate accaeetetg titttattga 7056 tototatotg aatgotgtat taatgggooa ggoottotgo coattototo aaactgagaa 7116 ctgtctctca ttcctgggga ggcaccctgc ctactcctta cctagatcag ggatttctca 7176 gttgtggaga gatttgttcc ttatagtgtt ggtcatcaaa ctgggatatt tggggattac 7236 aaagactttt caagggatgt atgggcacag gcagttttag gaagtgagtt cctagatcct 7296 catcttcccc aaatactcgt teecaaaatt gacgageetg acaatgtgca tgecaggeaa 7356 ggetettggg gtteeectaa aacaetteet ettttaagee taccaeteae teateatgaa 7416 tatagtccat tgtcccaggg tgtaaaaccc tctatagtgt taaataaaag aatgattggg 7476 aacattgaca cctgatggaa ctgttatgac taaaaaccct tttgcaaata atgtggtatc 7536 taattttctg ctttcaacaa aattgaagga ggcccttata aagttaataa ctgataatca 7596 aaaatgagta atttttgcca tgtaaatcag gtcaaagaat gaaatggcat tgctgtaacg 7656 aaactgcttc cattcccatt gatttactca tacgaacaag attccttagc ctttataagc 7716 tacaaaaaaa tgaaaaatag aaatagaatt gaggctgaat totattatat aaaatcatto 7776

## FIG. 5F

caaccatgtc	atatggttct	tcggattcat	gaataatttg	gaaaagagag	ccatatccat	7836
cttattaagg	gacacattcc	caataaattt	tcatctttca	tgtttaataa	ttatcaatat	7896
tcataacatt	ttacattttg	atcaaatatg	tgttaataat	aatagaaatn	nnnnnnnnn	7956
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8016
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8076
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8136
nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8196
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8256
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8316
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnattag	atcttaatgc	agaacaccct	8376
gaacatttaa	agcttcatag	tcacaagaga	aaagttttca	tttcaatagc	tataaatatt	8436
ttgttgttgt	aaagacatat	aacgataatc	aatacaaaat	ctgtcaaaca	aaaatatgtt	8496
acattaagat	aaaattctgt	agggaaggtg	aaattggaag	tgagtttcaa	tgaatgaaaa	8556
gaaacaattt	agacagagaa	gnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnncttagaa	8616
ggaattgaat	agattaggtt	ccttacccaa	aaagcctctg	ttatttgtct	tatttattta	8676
ttctcttttt	tccacattct	ccagtctcat	tcccctttt	taacacagga	aattattcca	8736
gcatgtttca	tacatattct	tttgtttgta	agagcttatt	taaaatatgt	aatattgttt	8796
tagatgcata	tattttttt	cttgtggaaa	ctatattgta	ctatatatat	atattttaga	8856
aatggacaca	ttannnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	8916
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	8976
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	9036
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	9096
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	9156
nnnnnnnnn	nnnnnnnnn	nnt				9179

#### FIG. 6A

tagatotoag otttottgag goagggagoo atatotgttt aattoactoa goatatactg	60
caaagaagca gnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	120
gggagaagtg cagaataaat atacccaact ctttactatg tatagacatt atctaggtct	180
ttatttttt tetettetta ateteaaaga aaacagagga aaggaggaag taaaaagtaa	240
atttttgcct gaagatgttt ggaaaaaata ccaaataaag tgagatagtg ggtaatctag	300
tgatttttat ttttccgtcc tctttctggc ctccaattgt gaaataattt atagcactgt	360
aagaaagaag ccacaaattg tggtagcttg gaccactgtt gaggnnnnnn nnnnnnnnn	420
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn	480
nannannan nannannan nannannan nannannan nannan	540
nnnnnnnn nnnnnnnnn nonnnnnnnn nnnnnnnnn	600
nnnnnnnnn nnnnnnnnnn nnnnnnnnnn acttaatatt gatagtgata attttattca	660
tttcacatgg catgaagtac caagetetat aggaatcaga aaataaagte ttatttett	720
ttetteteta ttgteea get tee tae agg aaa ata aac aet eac ate eta Ala Ser Tyr Arg Lys Ile Asn Thr His Ile Leu	770 131
aag gtt cca gaa aca gat gag gta gag ctc acc tgc cag gct aca ggt Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly	818 147
tat oot otg goa gaa gta too tgg ooa aac gto ago gtt oot goo aac Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn	866 163
ace age cae tee agg ace eet gaa gge ete tae eag gte ace agt gtt Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val	914 179
ctg cgc cta aag cca ccc cct ggc aga aac ttc agc tgt gtg ttc tgg Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp	962 195
aat act cac gtg agg gaa ctt act ttg gcc agc att gac ctt caa agt Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser	1010 211
aagagetgee cecaetteet aggtetatea gttagggtte agacaagaaa cagatggcat	1070
actcgagtga tttgaggaga gtgtaataaa gggactgttt acaaaggtgt gatcaccatt	1130
tggagaaact acaaaggata gtgcagaaca ctggggcttc aatgttggga gggcaattac	1190
cactgttgga gaagttactg gaatcagaag ggagctgtag ggaaagcccc acttcccagg	1250
agctgtagcc acagaatagg gaagctgcca catgcagcga ctccaaaggg tggaaactgg	1310
atmaatmaat acceptante attotoptop acceptante	

#### FIG. 6B

ttggctgaac	ccagctagaa	gtcagagaat	acaagggtcc	actgttgtat	tccataaaag	1430
tcaacttctc	agggeteaga	gcaatattga	catgtacaga	atagatctgg	agaggaaaca	1490
gaaaatatct	agtacaatag	ctaatcactg	tgattcatgc	acagtgtcat	gagccagcag	1550
gatgaatatt	cctttgctgt	acttgctgcc	agtcagctgg	ttatgggttt	ttccaagaaa	1610
tttggtctct	aacaaaattc	ttcagagcct	ttactgacta	tgctggatat	ttttggaagg	1670
gatcccatac	ttttgaactt	catacagcag	aatttcaaac	aatcttggga	aaataacaac	1730
ttttatctgc	ccagtaagga	caactaacac	ctagtatcat	aatcatttcg	taagagacag	1790
gtaatttcat	caccgagtgc	atat				1814

#### FIG. 7A

ccaccyayaa	gggatatact	cicagaciaa	aggacagttt	Ctagtactya	ttcaatctgg	60
ctttatagaa	aattcactat	attgtcattg	tatttcacag	tttgcccttt	gtcttagctg	120
gtaagacaga	gcctatgata	aggacttgtg	tggcatgcag	gtatttaatt	ggcaacccca	180
gagggcagaa	gcaagagatt	taggagttta	agagagggta	atataagagt	atattatcaa	240
agttgtagtg	tggacaacag	aaactcaaat	attcaaggac	cagcatgtag	acagcetect	300
aagatgtcta	ctcagacaaa	gaatttcagg	tggaaggact	tgttcatctg	cttcacgccc	360
attggttgac	aggaatatga	actccattct	gctgctgggc	tagacatgca	tgtgggctga	420
gtgagctttc	cccagtatcc	gtagcatcag	aaaagtcgca	gggcagaaag	aaaagtatcc	480
aatttgaggt	gaattactga	ccttgaagtg	agtgtaagcc	taactagaat	tctaccccag	540
ctggctgaag	tgaaaggtga	ggctgagagg	aaataaggca	ggactgcaca	gtccccaatt	600
gtactgttca	aatccactca	tgcccttcat	taagtcagct	ctgccactga	gccttccagc	660
tgggaggcag	ccacaatctc	tgcagaagat	ttaatataca	ccagtttgtg	gaacaagctg	720
tnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	780
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	840
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	900
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	960
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1020
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	1080
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חחחחחחחחחח	1140
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1200
תחתתחתחת	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1260
ממתחחחחחחח	nnnnnnacc	tgcagcactg	ggatagecet	ggtacagacg	tagaacatgc	1320
ttgaggaggt	tgtcaggagg	aaatgagtta	gaccttgcac	agaactacca	ccatcaagta	1380
cagttggggt	gaggcagaca	tggtatgagt	tgaggcatca	gagatatetg	atgctttatg	1440
ccaaattaaa	attaatttt	tcatggagtg	acactgatee	acagaccaga	ctccaagaac	1500
tttgcagtga	ctaaataccc	atctcatcat	aactttcctg	gtattttctt	ctggaaaaaa	1560
ttcttccctg	atacagtttt	cagaggcagc	tagatgcact	gtcatctctc	cccttttccc	1620

#### FIG. 7B

acttocotac ctatocacaa tttactacco aatgccaaca ctaaagttag cocaacttoc 1680 ttctaactaa attattagtt tagaaggaaa gagaggagtc atgctaagga tcttaactgn 1740 nnnnggggag aggagggag aggaggtagg gaggqqaaaq aaaqaaacta qaaatccatc 1980 aattttagga ccaacttcag gtaaaaaaat gaattaggca agttggtctt tcaacattct 2040 ctacctctct ttatateatg gttgagacca cagacttctc acctcatgaa agatgaactc 2100 taactaattc atactaaagc taaagcctct aaagaggatt aaatatgagc aatcccacga 2160 gaactttttt cccctggaat tgtttattca actgtcgttc gttatatgga atttcctgcc 2220 tggttaagtg taggccagta ctttggatga attgtagttt tctagaaaga cgcttcttat 2280 ataaqaacct ctccagggaa acaqgggcct gtatgagatg aattgagaaa taactttaca 2340 ccactgatta tgtcagtgtt ctattctgca tggtagagat gtgaaagggc agactgacca 2400 ctcttcatgg aagccaacat ggcttactaa atagtcaaca accatgggag agacctgtgg 2520 ggtcttcatc agagctcagg atctcctagg gtatcactca taaatacagc catcagggag 2580 atggagaaat ctttgtgcag ccagaaattc tcaacctggt tttacccatc cttcccaact 2640 ttgtattcgt cctactgttt actgacatgg atcctctgct tcattaacca tcccttcctc 2700 accacatget etetgaactt ggetgeacet tttetacete eatgeettet ttgeteaggt 2760 ttttccacat aaatatcatt atttccctct ctactagctc caagcccacc ctctctctgg 2820 ggcagetcag teactecagg geacaagggg gtettteeet cateceacat tttgagacet 2880 actacctgga ccatttgttt gccttgtaac tatgcttgcc tttttaattg ctattttatt 2940 ttccatgtat tttcattgtt cacacaagtc ttctttattc cacactaagg caaaagcaga 3000 gtcctgtgtt cataataagt gctcaacaaa tgttgggttg attgggttgg agattccatc 3060 ttagataatc gcagtcccat catgccagct accagactgt gtggacagcc aggtcagagc 3120 agccaaatga tattctagct tgtggcacaa ataccagcaa caaaataacc aaagtcacac 3180 atotgootet gagttootgg ottotattto toaagggoat ttttaagttg tottatgact 3240

## FIG. 7C

gttccctttc	tactcattct	cataaattga	gctgtggact	gctgtgaccc	acaagettet	3300
ccggaagtca	atgtataaaa	caaacacgga	aacgaagagt	atggtgggtg	gagggtactc	3360
cactgactct	agaatggatg	actgaacatt	ccaaatttca	agcacaagtt	agggagcaac	3420
agatcatttt	ccttttgaaa	tagggtttct	tetgeteage	cagttgttgt	attttcatta	3480
ggaaatggaa	tgggactaca	gcacaaaaaa	taaatataaa	aggacccttg	tagggctggc	3540
agaaaagaga	atccttccta	ggagacctgg	aggtgattcc	aggennnnnn	nnnnnnnnn	3600
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3660
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn	3720
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3780
nnntcagaaa	gtgtgcaaac	agtaaaaaaa	aatggtatat	ctagcaagtt	gcatgcctta	3840
cttgtgagtt	catgaagttg	tggcaaggat	aagacaaata	ttttttgcca	ttgcatcatt	3900
atatcattgc	taagagtatg	ccattattnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3960
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	4020
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4080
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4140
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4200
nnnnnnnnn	nnnnnnnnn	nnnnttaatt	aattaaatta	aagaaacgac	aaaagagtat	4260
gcaagaattt	taaaacaact	tagaggaata	tgtatgagga	tacaggctaa	gctaccataa	4320
tgaagagacc	tcgaaataca	gtgagaagcg	agacagaagt	atctttcgtt	ccatgtaaca	4380
ctcaggtggt	tcagagcage	taagcagcta	tgttccatag	agtcattcag	tgatccagat	4440
tattttcatc	tgttgctctg	ccattctcca	ggatgttgtc	cctataaaat	tgtcaaagct	4500
cagtcagtgc	caaacccatg	tttcaacctt	cagaaagtaa	acgagtggtg	gaaaacacat	4560
tcaatgtttt	aaggccaaga	ccttgaaaac	tcactctctt	agcctgaact	tagattacat	4620
ggctgggccc	acttaactat	aggggagget	tggaaacata	gtctctgaga	agccatgtgt	4680
ccagctaatt	ccctaatact	aaagttgaaa	gaaagaatgg	attaaccagc	agtataccac	4740
aaggtaacaa	atgactagga	ggatcaggct	aggtggacta	gaaaagagac	agtcaattca	4800
gtgcaacaat	tccatattga	cacttttcat	gtagctgttg	cttggctcta	tctagagagg	4860

#### FIG. 7D

actcagaggt	agtttagata	aggcctttgc	cctccaaata	cagtctaagc	agactgattt	4920
cctactggat	gttcaacttt	ggagtcttca	gggatgagta	gggcttctgt	acgtggaaga	4980
gactatgagg	gaacctgcac	aggacaaggg	tttgcataaa	gacactgagg	tagggacctc	5040
tcctgttgtg	gggacagtga	gaggcccagg	tctccttgac	tcacaaagtg	cttactaagc	5100
acttactaga	aattaagaag	cagattataa	tcaatatggg	ttatccaatg	tttggatgag	5160
caaggeteet	tatcttttct	tcgttaatgt	taatcacact	cttttggatg	gagacaaata	5220
tctgtggggg	ctnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	5280
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	5340
nnnnnnnnn	nnggctcaga	ctaaataatg	tctaatctct	tctccagtaa	aacaatccgt	5400
ggttctcaga	tagcactgtg	ctggaggtag	tggggtttga	gggctgggaa	gttgggagga	5460
ctgagccctt	cccgctgage	agtttegtee	agtttttcct	gtaccagect	gtcatgttta	5520
ttccatgtga	atgactccag	aggcaaaatt	caagcttttg	aatagggcac	aaattaactt	5580
gagtaccctt	teattteeet	gtaggtgaac	actcctctag	ccctgccttt	tgtcagtctg	5640
gagcccttgt	tctaatctgt	acacaccaga	ggactttaca	aggctttccc	cagcctccag	5700
aattattctt	ctgatccacc	ctctactaaa	ctcaccettt	cctcagtgct	aggacgttga	5760
aaaaccgaaa	caaggcaaag	ggccaattgt	aataattcac	actaaggcat	gagtgactag	5820
gtttagtata	ttaacactac	ctaggatatt	ctatttcttc	caaaaggatc	ctgttaatcc	5880
ttgaaattta	acaactaatg	gtatagattc	taagcactgt	gagtacttgt	cagtggggga	5940
aagacatttt	tgggctgaga	gactttgcca	ctgnnnnnnn	nnnnnnnnn	nnnnnnnnn	6000
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	aagaaagatg	attagatnnn	nnnnnnnn	6060
nnnnnnnnn	nnnaaaaaat	aacatgagag	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	6120
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	6180
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	6240
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	6300
nnnnnncaca	gagctagccg	tgttggctgt	cacccactca	tgtggccagc	ctgttggtct	6360
acctcttagt	tgccatgtaa	caggattctg	gtgcttttcc	tttgcccagg	t cag atg Gln Met	6417 213

#### FIG. 7E

	ccc Pro															6465 229
t go Cys	atc Ile	att Ile	gct Ala	ttc Phe	att Ile	ttc Phe	ata Ile	gcc Ala	aca Thr	gtg Val	ata Ile	gcc Ala	cta Leu	aga Arg	aaa Lys	6513 245
	ctc Leu									ggta	aagto	gag 1	ttt	attca	at	6563 255
ggt	aacc	caa	tgcad	ctggg	gt gt	ctg	cagca	a tg	agcca	actg	cttt	gcad	ctg	cagg	cctatg	6623
gct	tgct	gct	ttcat	tgcta	a a	cca	ctca	g age	cttat	tgaa	ccad	ettt	gag	cttgt	cttga	6683
tga	ttati	ttt	tecco	cagaa	g aa	aaato	ggct	e to	atcgt	tcag	tgaç	gctga	aac	ttct1	acact	6743
gaç	rtttt	tta	aagg	gaato	gt tt	tgtt	ctta	a tg	tctga	aaag	agtt	tgto	ett	attct	ttgag	6803
cca	agago	ett	tcato	cageo	t ca	atgaç	gagto	g ato	gttat	ttt	ggca	atgo	cag .	agago	ctacgt	6863
gct	ccgat	ttt	tgctç	ggtgg	g aç	ggtto	gccaq	g gat	teett	ttct	gago	gatto	ct	tecat	tttca	6923
ccc	ctctt	ttt	cccca	agtct	g ga	atato	gacct	gg	gttaa	aacc	caco	ccct	ct	ccca	ggaatc	6983
tca	accto	cac	ggttç	gggta	ıa go	gaaaq	ggaga	a aaq	ggttt	gtg	aggo	catt	tg .	gggat	aagga	7043
aac	agct	ggt	tggtç	ggtgc	a tt	aacq	gtett	tca	agcaç	gete	cctt	cgaç	gtt :	tctc	cttage	7103
cto	ttgta	att -	cttac	ccaac	a ca	ctco	etgtt	cto	gttgt	acc	agct	ggga	aca (	gagca	tgctg	7163
aac	cctt	ca	gccct	gatt	t ca	ittgo	ettea	tte	gttca	atgt	gtct	gtct	tt (	ggttt	cctgg	7223
gtç	gaged	etg	cccac	caaaa	c c	ccaç	gaato	g tai	gcaç	ggee	tago	tggt	gc :	tttco	taaac	7283
ggc	tccct	tg	tctgc	cacto	a at	gaac	ettet	cca	aaaga	atct	atac	atgo	jec -	tcato	tatag	7343
aaa	gagaa	aat	gacat	gtgg	a aa	taat	tcaç	tag	ggagt	ttg	cago	agca	ict a	atcto	gaggac	7403
tag	gggaa	att	ttaaç	gtggt	t gt	tato	ttac	att	tata	actc	ataa	ctto	ta t	tattt	tcatc	7463
tgc	cataa	aaa	tatto	gteat	g tt	ctat	ttgt	cca	ittgo	cct	atgt	gtgt	at o	gtatt	cactt	7523
ggg	tgcto	jac (	cacaa	atatt	t ct	aact	gtag	aat	gcaa	gga	atto	ttgc	ca a	aannr	nnnnn	7583
nnr	nnnnr	nnn :	nnnnn	nnnn	n nr	nnnr	nnnr	nnr	ınnnr	nnn	nnnr	nnnr	nn i	nnnnr	nnnnn	7643
nnn	nnnnr	nnn i	nnnnn	nnnn	n nr	nnnr	nnnr	nnr	nnnr	nnn	nnnr	nett	ca t	tggta	aagga	7703
gga	ggtat	gt (	ccaac	agaa	c tt	cgac	tttt	aaa	taga	acc	actt	caga	ıga (	gttgt	gtcag	7763
gtg	cacct	ca (	gttgt	ctta	t ct	tctg	ccat	tet	tctt	tta	cctc	tcac	ac o	ccata	cctca	7823
ggg	ttcaa	agg (	cctgg	ggee	t ga	ggac	tect	taa	taac	ette	agaa	atga	ige a	agete	agtgt	7883

#### FIG. 7F

tccgttccag ctgtctttgg gagaatggaa tggagtcaca ctcaaagata gagtggaaat 7943 aaatoototo otoatootto accocaatot taagagtgag tgaggatato aqtagetcog 8003 agctgggagg taaagctcaa gttctaactg tgattaggag acctttctta caaataagaa 8063 ttaagtgaat aaatgtgcaa acaatttott ttatatttt aatgaaccag agagaaatca 8123 tggttgccta tataaccctt gtctccaact cacttgcatt cagatetgct ttcttacatg 8183 tgtctgccat gcacacaaac ttgtgtgcca tggaaaaggg ttgagaactg ctgqtgatgc 8243 nnnnngcagc aagagaagga acattttaca gcttattggc cgaacttcac tgccgctagt 8423 gtggttcaac ttggactaca gagaaatctt cetaactggt ttccctgtat tcactcctgc 8483 tacctccaac ttggtctgtt ctcacttttt gctataatag gcttttaaaa atcataaatc 8543 taccatgtgt cctctgtcca gaccttctcc atggcttctt attgctcact ggatgaagtt 8603 ccaacgagec caggatggtt tgactcatgt etccagettt aactgcatca ccatcacett 8663 cattgtctaa agctctaacc acacaggatt ttctagtcct cagaggcatg gcagtctttc 8723 aattccgagt tttctcatac aatattgtct cttcttaaaa tattttttct tgttgtccac 8783 ctgagttgga gtcatctttt aaatctcagc taagcttata cttcatcaag tctttcctaa 8843 ttctacctcc acgcaccaca cccattacat taaatcccct tattatatgt ttccatagca 8903 cotactttct tottttcagt atactcagca cacaatcaca tgtctaggat ctgttttaat 8963 agettqqact accaattaaa ttgcatccct tttaattqtc cattgattcc tcaagtaccc 9023 acatgcccat cttagcaaga agttcagtgt ctccctctta tagcatgtac ttctccacct 9083 cccacaaact gccagaaagc ttacttagcc cacagggcca gtgctaggca gctaggttag 9143 teetecagag ggeeetggtt ttgageagtt getgtetaet eeggeeatge agaatetetg 9203 gtccttccag atgtctccat ccactgtgca aaggtaacct tgctggttcc gatccccaca 9263 cagaccacag tgctacaaga ttacagttct tatggttccc caacacatgc tctgtcattg 9323 gtcccaaagc aggaccccta tgggttgatg aggtaggagg aggtccctgc cttagccaca 9383 getgcacaca gecageetet teeettetag geeeteatgt tgageetggg aegecagtee 9443 taacttoott otottoagtt ootottaggg ocattggtat ootgaattto ttagtooatt 9503

#### FIG. 7G

goddagccaa	gcaaagaagc	ageaggerry	greeerrtee	: ttccagatgg	cttcttagct	9563
cctgaacaga	tttacccacc	tatacctcag	tgactagcto	: tgtgtactaa	agtgtattgg	9623
gagggcagcc	attattggtc	cataaaaggt	cctgcttacc	attttcccct	aagaggaacc	9683
attcaacagt	ttggggeteg	agggtgacct	gctgggctct	agagaagaag	ctggcaactt	9743
ctgttgcaaa	ataatgttaa	attctgcttc	atctgcttgt	cttnnnnnn	nnnnnnnnn	9803
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	ממתמתממתת	nnnnnnnnn	nnnnnnnnn	9863
nnnnnnnnn	nnnnnnnnn	nntaaacatt	gaacctacta	tatgcaggtg	agtatgctag	9923
atnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	9983
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	10043
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	10103
nnnnnntgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	10163
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	10223
תחתתתתתתת	nnnnnnnnga	tttgaataca	ggtctgtttg	actccaaaac	ttgtggccta	10283
tttgttgcaa	aagtgcttaa	tacaaattgg	ttcagtcaat	attattatct	ttgaacaatg	10343
gaaggagaaa	gtaagtttca	atccaaaata	attgagtgac	ttatacattg	acttgctgag	10403
ccaatggcaa	agtcaagtta	gaatccagca	gaagtcacca	gctacagaat	ctagatettt	10463
agaacatgtc	ttcagatctt	cagaacagtg	tttcttaaac	tctcttgtga	aggaacagtt	10523
atcatcatag	gctggtaaca	gttcacctac	cagcaccagc	ccatgaacca	gactctaagt	10583
ggcacagece	tagaagattg	agccagaatt	ttacagaggt	ttaaagacca	aatatgctgg	10643
tttatggtta	cctgtggccc	acagagaatg	gcagcactaa	cctcaggcat	aaatgaggta	10703
cccactgaag	ccaacattca	agagcaattc	ctatgggtta	accattgggc	tcctttcaaa	10763
tgcaaaccct	catgaaagag	actacagtgc	tgaatagaga	cctccaaatt	ccaggccaag	10823
ctcaggatag	tcatgaggga	attactaaaa	acctggtata	tagggcaaaa	gcagaattag	10883
gaatggactg	atttcaggaa	cccaggcaat	ggcaggagtt	gggcattaaa	tcctaaaaga	10943
gaatcagagt	gggagggaat	atgtgaaatc	agaggttaag	aaaaaagtga	aaacctnnnn	11003
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11063
ממממחמחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11123

#### FIG. 7H

	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11183
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11243
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11303
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11363
	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	11423
	nnnnnnnnn	nnnnnaaaaa	attaaaagaa	agatgtgaaa	tcaaggaaac	ttactggtga	11483
	gcagcatccc	attatgtgaa	cttgtgcttc	tgaaccagta	acttgagtta	ctttgagcca	11543
	gtatcagtca	cttatacctt	agtgcaaaat	taattgatca	gacattctga	cctggaccag	11603
	ggaaggcagg	cagaagtagc	agtcaagact	aaagcagaaa	agggagaget	aattctgcag	11663
	ccagacattt	cctggattga	atacccaaat	tagtccctca	gcctttaagt	gcctgagggc	11723
	caggagtaga	cagaggaatg	gaaagtgtga	gacttctttg	ttcacactct	ttgcctaggg	11783
	gccagatttt	gctttatgca	ttaccatccg	aagteecagg	ccacagtgaa	catttgggct	11843
	tcgctatgtg	gatttattta	gatttacttt	ttgtcctgcc	atattttaat	ctataagcca	11903
	accontition						
	accageeeee	tcattaatct	tattecattt	ctggaatttt		gac aca aca Asp Thr Thr	258
	aaa aga cc	t gtc acc ac	ca aca aag a	agg gaa gtg	aac agt gct	Asp Thr Thr	
4	aaa aga cci Lys Arg Pro	t gte ace ac o Val Thr Th	ca aca aag a nr Thr Lys A	agg gaa gtg Arg Glu Val	aac agt gc Asn Ser Ala	Asp Thr Thr	258 12003 272
i	aaa aga cc Lys Arg Pro gtgagtaagc	t gtc acc ac o Val Thr Th atgattttta	ca aca aag a nr Thr Lys A	agg gaa gtg Arg Glu Val ttactttctt	aac agt gct Asn Ser Ala ttctctctca	Asp Thr Thr t a	258 12003 272 12063
1	aaa aga cc Lys Arg Pro gtgagtaagc taaagtaacc	t gtc acc ac o Val Thr Th atgattttta actgttctat	ca aca aag a nr Thr Lys A cttttctttc taattcatgg	agg gaa gtg Arg Glu Val ttactttctt aaggcaactg	aac agt gct Asn Ser Ala ttetetetea aatagtteea	Asp Thr Thr t a gcttgaattt	258 12003 272 12063 12123
i i	aaa aga cot Lys Arg Pro gtgagtaagc taaagtaacc	t gtc acc ac o Val Thr Th atgatttta actgttctat tggtagcatt	ca aca aag a ar Thr Lys A cttttctttc taattcatgg tcagcgaagc	agg gaa gtg Arg Glu Val ttactttett aaggcaactg ctcgttetta	aac agt gct Asn Ser Ala ttetetetea aatagtteea geeccagaac	Asp Thr Thr t a gcttgaattt gcttatagaa	258 12003 272 12063 12123 12183
1 1 1	aaa aga cci Lys Arg Pro gtgagtaagc taaagtaacc ccttcctgtt	t gtc acc ac val Thr Th atgatttta actgttctat tggtagcatt ggtctatatt	ca aca aag a nr Thr Lys & cttttctttc taattcatgg tcagcgaagc cctaagcact	agg gaa gtg Arg Glu Val ttactttctt aaggcaactg ctcgttctta cctagatgat	aac agt gct Asn Ser Ala ttctctctca aatagttcca gcccagaac actgcactgg	Asp Thr Thr t a gcttgaattt gcttatagaa aatcatgcca	258 12003 272 12063 12123 12183 12243
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aaa aga cc Lys Arg Pro gtgagtaagc taaagtaacc ccttcctgtt ccttttgctc	t gtc acc ac val Thr Th atgatttta actgttctat tggtagcatt ggtctatatt agaaacagag	ca aca aag a nr Thr Lys i cttttcttc taattcatgg tcagcgaagc cctaagcact ttaaaatcga	agg gaa gtg Arg Glu Val ttactttctt aaggcaactg ctcgttctta cctagatgat acagcaaaga	aac agt gci Asn Ser Ala ttctctctca aatagttcca gccccagaac actgcactgg gaagatattc	Asp Thr Thr t a gcttgaattt gcttatagaa aatcatgcca acctctggtc	258 12003 272 12063 12123 12183 12243 12303
i 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aaa aga cc Lys Arg Pro gtgagtaagc taaagtaacc ccttcctgtt ccttttgctc tcacatagtt	t gtc acc ac o Val Thr Th atgattttta actgttctat tggtagcatt ggtctatatt agaaacagag tggatgtttt	ca aca aag and Thr Lys Actitictic taattcatgg tcagcgaagc cctaagcact ttaaaatcga	agg gaa gtg Arg Glu Val ttactttett aaggeaactg etegttetta ectagatgat acageaaaga aatgattaag	aac agt gci Asn Ser Ala ttctctctca aatagttcca gccccagaac actgcactgg gaagatattc aagtacattg	Asp Thr Thr t a gcttgaattt gcttatagaa aatcatgcca acctctggtc aactgcgatg	258 12003 272 12063 12123 12183 12243 12303 12363
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aaa aga co Lys Arg Pro gtgagtaagc taaagtaacc cottootgtt cotttttgoto toacatagtt caattgacaa	t gtc acc ac Val Thr Tr atgattttta actgttctat tggtagcatt ggtctatatt agaaacagag tggatgtttt gtaatatgg	ca aca aag ar Thr Lys ? cttttcttc taattcatgg tcagcgaagc cctaagcact ttaaaatcga tgcaacaaac aaaaacacaa	agg gaa gtg rrg Glu Val ttactttctt aaggcaactg ctcgttctta cctagatgat acagcaaaga aatgattaag gtctcttcat	aac agt gcl Asn Ser Ala ttctctctca aatagttcca gccccagaac actgcactgg gaagatattc aagtacattg gaggttgaca	Asp Thr Thr t a gettgaattt gettatagaa aatcatgcca acctetggte aactgcgatg ttgtgggete	258 12003 272 12063 12123 12183 12243 12303 12363 12423
	aaa aga cci Lys Arg Pro gtgagtaagc taaagtaacc tettteetgtt tettttgete teacatagtt caaattgacaa tgagtcaaga	t gtc acc ac val Thr Th atgatttta actgttctat tggtagcatt ggtctatatt agaaacagag tggatgttt gtaatatgg ggaggagaga	ca aca aag ar Thr Lys ? cttttctttc taattcatgg tcagcgaagc cctaagcact ttaaaatcga tgcaacaaac aaaaacacaa ggatatgatc	agg gaa gtg rrg Glu Val ttactttett aaggcaactg etegttetta ectagatgat acagcaaaga aatgattaag gtetetteat taggggteag	aac agt gct Asn Ser Ali ttctctctca aatagttcca gccccagaac actgcactgg gaagatattc aagtacattg gaggttgaca aagaagtggg	Asp Thr Thr t a gcttgaattt gcttatagaa aatcatgcca acctctggtc aactgcgatg ttgtgggctc ggtttggagc	258 12003 272 12063 12123 12183 12243 12303 12363 12423 12483
11 11 11 11 11 11 11 11 11 11 11 11 11	aaa aga cci Lys Arg Pro gtgagtaagc Laaagtaacc Letteetgtt Cetttegete Leacatagtt Caattgacaa Legagteaaga Legagteaaga Legagteaaga	t gtc acc ac ac val Thr The atgattttta actgttctat tggtagcatt ggtctatatt agaaacagag tggatgttt gtaatatggg ggaggaggaa ggttggatga	ca aca aag ar Thr Lys ? cttttctttc taattcatgg tcagcgaagc cctaagcact ttaaaatcga tgcaacaaac aaaaacacaa ggatatgatc aaagcttaga	agg gaa gtg arg Glu Val ttactttett aaggcaactg etegttetta ectagatgat acagcaaaga aatgattaag gtetetteat taggggtcag etcaggggaa	aac agt gci Asn Ser Ala ttctctctca aatagttcca gccccagaac actgcactgg gaagatattc aagtacattg gaggttgaca aagaagtggg gcagnnnnnn	Asp Thr Thr ta gcttgaattt gcttatagaa aatcatgcca acctctggtc aactgcgatg ttgtgggctc ggtttggagc ttactaaaat	258 12003 272 12063 12123 12183 12243 12303 12363 12423 12483 12543

#### FIG. 7I

	*******************************		***************************************		***************************************	12/23
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	12783
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	ппппппппппп	12843
nggcaccaag	agatgagggg	ggcagtcttg	gccatatatt	tggctgaagt	aagtcaattt	12903
gtcattcctg	catgagcctt	tataaacaga	agtaagtaac	caactactat	ttggtcattg	12963
gagttgtcca	agaggccagg	gttctgtcta	atacctgttc	atgcatgaac	atgccaacct	13023
agattgcatg	cagactacca	gttttgggtt	tttgtttagt	tcagcaggat	ttttctcagc	13083
tcactgcctc	tcaaactttc	agcaacaaaa	ggacatctgt	gatatcagaa	tctaccactc	13143
taagtatttg	gatgcaatag	caatgaatat	ctgagtaaat	ctaggtgggg	agtgggggca	13203
ccctgtagcc	aaaatgattt	aacaaaatca	aaccaaaatt	ttggaaatga	tgccttggta	13263
caatgaagag	actacttgag	gtaggtttga	cttatctaat	atcttattt	ctttaccaat	13323
acctaatgag	gaatttaaat	atttctagat	agctttggaa	aggtccctta	aagaggcacc	13383
agcataccac	tgccagatct	aatcccccca	aacactgttt	tcatcatcat	catgtcatct	13443
cttgtctcta	tagatcatat	caaatccttc	ccagagtttt	teaggeettt	tgacaactag	13503
ccacatttca	ctaagccaac	tcatctacca	ctcttcaaca	aaacttttcc	tcaagttgag	13563
ctgctccacc	aacaccactg	ccatgagete	attcccactt	ctgtggcttt	gctcatgttg	13623
gttattttt	tggagtgtcc	tccctattcc	ttcttacttg	tcccaatccc	aacttttggc	13683
atggtctact	ttaagataca	gtaatgagta	actttannnn	nnnnnnnn	nnnnnnnn	13743
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	13803
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	13863
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	13923
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	ttttaaaat	ttaattcaan	13983
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	14043
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	14103
nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	14163
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	14223
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nntacataca	14283

#### FIG. 7.I

caacactote ttgettaate tgtaagacte tetececcae teatacettt ttattttee 14343 totgoattgt acacacaatc tataccactc ttaagcacat gattacagcg ttattttctg 14403 gctgcttcta tgtgtctata ttttaggtcc acctggtcaa tataataaag tgggatatta 14463 gtgttaatgc aactatatgg tatttgatat ttgtctttct gtccgtttat caatgtttct 14523 tatagnnnnn nnnnnnnnn nnnnnnnngg tgtctgattt tgaccaaatt tgactaaata 14583 Connonnon nonnonnon nonnonnon nonnonnon tgagtctatc aactcaaaaa 14643 agaataacct acaacaataa caaqtttcaq aacatttttt aaattactga ttttatqagn 14703 gaaattgcca tggttaagat tttaatattg ctcaggccca gacagctcag ggctttgaca 14823 ttcccacacc cattctctgc catcccagtt ctatctcatc ccaaaaccat ccattatgag 14883 gagaqtqtac agetetagge tqcccqqqaq ccateccqca etetcatttt qtqactcqqc 14943 atcttgggag atggagtctt gggacttagc ctggacatgt cccttgcatg tacttcttac 15003 aagactttta ttoagatgaa tattttooot tooaacttaa gaagcacagg gettgetggt 15063 tttgcttcac taaccagcaa ctgaagcaag acctgacttg tgaaaatgcc taatagagtt 15123 cagtattage getgttteac cattteetgg atctettgee tttgtgeaca tgatagaatt 15183 gcacttetet gtgattaatt tgtagttaag tgtggteatg taactegett tggteaatta 15243 aatgtaagca taagtgatgc gtgttatttc tgggtagaag atgtaagagt tggcatatgc 15303 tttgccatat tttctttatc catctggcat ggtaaccagt aacattctag gtagtaattg 15363 ctccatcagt ctcagtctct qagtgactaa aattgacaga gtcccctgct gaccctcaat 15423 gtacatggaa catgaacaag aataagcttt tgttttttat attgagattt tggagttgtt 15483 tgttcctaca gcattaccta gtttactcta atacaacatg gaaaaaactg gaacctataa 15543 taaatagacc ctacgttgcc atttaaactt ctagttctga ggaataataa tgtggggaaa 15603 tactttctat ataataaaaa aatagaaaat tgcaaaataa aaatatactt atgtatcatt 15663 catgtcctat taaaaatgtt atttatagac tcaccatatt cccttcctcc agaaaaatag 15723 aagtaaaaat atgaaaatgc ctgtaatcat gtttttggat tatggaatca agtattgctt 15783 tttactttta tgttttctga atttttgttg tacttcacta catttttgag tgccctgatg 15843 tattactttc aaaaagaaga agaatacttt ctgaagccat ttcaaccatc cccactcacc 15903

#### FIG. 7K

		coagcaacca	aucucuccac	acaggaceee	ccaccageee	ctattaagtt	13903
	taggaagggc	gatgctatac	cttctttaaa	ggacacctac	caatgtctta	gttgcctttc	16023
	aaagactcct	agcacagcta	aatgtgatgg	atatgctcta	aggatataag	agctgaagtg	16083
	acttgcataa	ggtcatatca	taacttactg	ttagaaatgg	agctagaact	cagacccact	16143
	gagtccttgt	ctgtgacaca	ctgccctttc	catttgtgga	agttgttctt	gtatctaact	16203
	ttatctgtgc	tactatttgg	gcctagccat	tctccctctt	atgcagacaa	gcagataaac	16263
	agtaaaactt	taggagtgga	ttatgatacc	atagatatat	atcatctatc	ctttacaaaa	16323
	tagttattac	agtcatcaag	ccttggttag	agtttacaga	ccatgtatcc	tagctannnn	16383
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnntgaaaca	16443
	gtagcagacc	aaaagaagtc	atgattccca	gcatagtgct	nnnnnnnnn	nnnnnnnnn	16503
	nnnnnnnnn	nnnnaaacct	gtattaagtt	tctgttattt	gcaagaccct	gtcagttagg	16563
	ccatgtggga	actagaagga	tgaatttatc	agtcatccaa	gattcttaca	attaagtatt	16623
	accgataagg	tactcaagaa	acagttetea	ttcacataat	ttgggttaaa	acaaaaagaa	16683
	gccagctttc	tatatacttt	tggtccagtc	tttacgtttt	ttgttttgtt	ttgtttgttt	16743
	tcatgagtat	cccgacttcc	ttctaagaac	ttccacctga	gaactgacca	cagcgtcagc	16803
	attccacatg	ggtgtgtttc	ctttcccctt	teccatttea	gtggtttcca	atttctttt	16863
	cttttggcac	tataaacctt	tegeaaagga	aatattagac	agaactccta	catgtcaagc	16923
	aaattaaaat	agtggtgaaa	ttagagtgga	ggacataatc	accctatcat	ataggctatt	16983
	tgtccatatc	atatttgtcc	ctacaaaggc	ctctaaggnn	nnnnnnnnn	nnnnnnnnn	17043
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17103
	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17163
	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17223
1	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17283
1	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17343
1	nnnnnnnnn	nnnnnnnnn	nnnctctaag	ataccttgtg	cttcttggaa	catatttgga	17403
	aaatcatgta	gctctcaaat	tatccctatg	teetgaagee	caccttacca	tcaatcctca	17463
	gaaataccca	acccatgtca	ggcaacttca	cactttcttt	cttcaddcad	cacacttoto	17522

#### FIG. 7L

tcagggaggg aggagagtgc tattagcaag aggagtcact aacagettca etcacetgtg 17583 occatqaatt tttaatggtg tgaaaagtot gtgtattttt tatggttoto tatggotoat 17643 ataagaqqqa caaacaatac atqaaaqttc aqaqatqqqq acaaatatca ctttaagctg 17703 gggataatca gggaagaaga aagttttcat ggagaaggtg acttttgaat caggaagaaa 17763 tggaaacagc aaactottot agatagagga gacactaaca qgaaaqqcag agaqqcaqqa 17823 aggtgtggga aagtgcacgt gaccccgttc agagagaaag ccaggtgtga gataaggggg 17883 aaagactgtt agggcatgta ttgtaaacca ctaattccag gcaaaagtta gattttactt 17943 actaagcaag agtgcttcag ttagatccta gcaggaaatg gagggtatgc ttagaagagg 18003 taactgaggc aagtttaatt tataaaggtg tgtgcagcat taagggaaac cagcaaggga 18063 tactgagcat gccaggatgc aagagcaggc agggaaggtg actattccta ggtctgaagg 18123 agaaagggga gggagcagtt cccaqaaccc tagtaaaaat ggcaatgaga aaggtccatc 18183 tggcaggacc tatggtcttt aacagaggga caaagtcaac ccacaacttg tctgggaggt 18243 tgctgaggaa tagatacccc aacctctctc tcaacccact qcaacactct ttttccccta 18303 gactgagccc agtcaaagac agagggagga gcccagtgat gcagtctgca atgtcatcat 18363 cctggagcat gaatagagtg cagcagggtg aataatgagt ctgcaggaat taatagaaat 18423 atctgacaca atagggaact ataagaggtt ttgaatagga gaggcccctg aaatgtgctc 18483 caatattact gaactatgtg tggcccaaag aatggaagag gaacagctct tgcaataggt 18543 ctgaggagag aagctgaaga cttggactag ggcaatggta aaaactgtgg aaagaagttt 18603 taaatgaaaa gttttaaacc atgoggotto cagotagatg aactttttta aaaaaattag 18663 ttcctcactc aaattttggg gaggttatat attttctaat cataaaaaat gatttttctt 18723 atttgtgggc ttttctcccc ag atc tga acctgtggtc ttgggagcca gggtgacctg 18781 atatgacatc taaagaagct totggactct gaacaagaat toggtggcot gcagagcttg 18841 ccatttgcac ttttcaaatg cctttggatg acccagcact ttaatctgaa acctgcaaca 18901 agactageca acacetggcc atgaaacttg cecetteact gatetggact cacetetgga 18961 geetatgget ttaageaage actaetgeae tttacagaat taccecaetg gateetggae 19021 ccacagaatt ccttcaggat ccttcttgct gccagactga aagcaaaagg aattatttcc 19081

#### FIG. 7M

cctcaagttt	tctaagtgat	ttccaaaagc	agaggtgtgt	ggaaatttcc	agtaacagaa	19141
acagatgggt	tgccaataga	gttattttt	atctatagct	tcctctgggt	actagaagag	19201
gctattgaga	ctatga					19217

FIG. 8

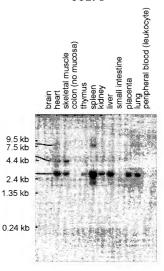


FIG. 9

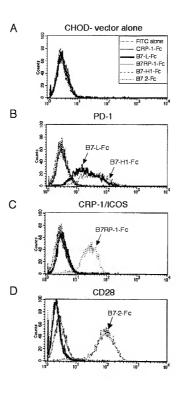


FIG. 10

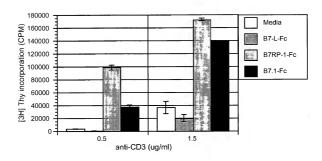


FIG. 11

